

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP2005/005608

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.7 H01L31/10, 27/146, 51/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.7 H01L31/00-31/119, 27/14-27/146, 51/00-51/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996

Published unexamined utility model applications of Japan 1971-2005

Registered utility model specifications of Japan 1996-2005

Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                      | Relevant to claim No. |
|-----------|---|-----------------------|
| Y         | JP 2003-332551 A (CANON KABUSHIKI KAISHA)<br>2003.11.21 whole document<br>& US 2003/209651 A1           | 1-5, 12-20            |
| Y         | JP 2004-6272 A (SANYO DENKI KABUSHIKI KAISHA)<br>2004.01.08 paragraphs 0023-0026<br>& US 2003/231370 A1 | 1-5, 12-20            |
| Y         | JP 2003-158254 A (NIPPON HOSO KYOKAI)<br>2003.05.30 paragraphs 0030-0031<br>(no family)                 | 1-5, 12-20            |

 Further documents are listed in the continuation of Box C. See patent family annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&amp;" document member of the same patent family

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|---|---|
| Date of the actual completion of the international search<br><br>28.06.2005   | Date of mailing of the international search report<br><br>12.7.2005                     |
| Name and mailing address of the ISA/JP<br><br>Japan Patent Office<br><br>3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan | Authorized officer<br><br>Yukihiro KONDO<br><br>Telephone No. +81-3-3581-1101 Ext. 3255 |

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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |   |                       |
|---|---|-----------------------|
| Category*   | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
| A   | JP 2003-523090 A (CAMBRIDGE DISPLAY TECHNOLOGY LIMITED) 2003.07.29 whole document<br>& US 2003/39803 A1 & EP 1254485 A<br>& WO 01/59854 A1 & AU 3202201 A<br>& TW 525406 B                    | 1-20                  |
| A   | JP 2002-508599 A (CAMBRIDGE DISPLAY TECHNOLOGY LIMITED) 2002.03.19 whole document<br>& US 6340789 B1 & GB 9806066 A0<br>& EP 1064686 A & WO 99/49525 A1<br>& CN 1298554 T                     | 1-20                  |
| A   | JP 2002-502129 A (UNIAX CORPORATION) 2002.01.22 Whole document<br>& US 6303943 B1 & US 2002/17612 A1<br>& EP 1055260 A & WO 99/39395 A1<br>& CN 1295721 T & CA 2319536 A                      | 1-20                  |
| A   | JP 2002-502120 A (UNIAX CORPORATION) 2002.01.22 Whole document<br>& US 6300612 B1 & US 2002/3201 A1<br>& US 2004/56180 A1 & EP 1051752 A<br>& WO 99/39372 A2 & CN 1296645 T<br>& CA 2319550 A | 1-20                  |
| A   | JP 2001-516150 A (UNIAX CORPORATION) 2001.09.25 Whole document<br>& EP 1027741 A & WO 99/9603 A1<br>& CN 1270706 T  | 1-20                  |
| A   | JP 1-282875 A (MITSUBISHI DENKI KABUSHIKI KAISHA) 1989.11.14 Whole document<br>(no family)  | 1-20                  |